## IN THE CLAIMS

1. (Currently Amended) An optical assembly comprising:

a substrate;

a light emitting device mounted over a major surface of the substrate and having a face;

at least one channel formed in the substrate near the face of the light emitting device; and

at least one photodetector optically coupled to the light emitted from the face, the channel

including at least one surface spaced from the face and positioned to receive only a portion of the

face light and oriented at an angle to the face to reflect said portion away from the photodetector

so that the photodetector receives primarily direct light from the face.

2. (Original) The assembly according to claim 1 wherein the substrate comprises

silicon.

3. (Original) The assembly according to claim 1 wherein the light emitting device

comprises a semiconductor laser.

4. (Original) The assembly according to claim 1 wherein the channel comprises at

least one V-groove formed in the substrate.

5. (Original) The assembly according to claim 4 wherein the V -groove has a vertex

which is essentially parallel to the face.

6. (Original) The assembly according to claim 5 wherein the V -groove has a sloped

wall facing the face which makes an angle within the range 10 to 75 degrees with the face.

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- 7. (Original) The assembly according to claim 4 wherein the substrate is silicon and the V-groove has surfaces in the <111>crystallographic plane.
- 8. (Original) The assembly according to claim 4 wherein the channels comprise at least two V- grooves.
- 9. (Original) The assembly according to claim 1 wherein the face is the back face of the device.
  - 10. (Previously Presented) An optical assembly comprising:
  - a substrate comprising silicon;
- a semiconductor laser mounted over a major surface of the substrate and having a back face;

at least one V-groove formed in the substrate near the back face of the laser, the groove including surfaces formed in the <111>crystallographic plane of the substrate; and

an array of photo detectors optically coupled to light from the back face of the laser, at least one of the surfaces of the V -groove spaced from the back face and positioned to receive only a portion of the light from the backface and oriented at an angle to the back face to reflect said portion away from the photodetectors so that the photodetectors receive only direct light from the back face.

11. (Previously Presented) An optical transmitter comprising an optical assembly, an optical filter optically coupled to the assembly, at least one photo detector optically coupled to

App. No. 09/510,038 Docket No. Meyers 1-8 the filter, and control circuitry electrically coupled to the photo detector, the assembly comprising:

a substrate;

a light emitting device mounted over a major surface of the substrate and having a at least one channel formed in the substrate near the face of the light emitting device, the photodetector being optically coupled to the light emitted from the face, and the channel including at least one surface spaced from the face and positioned to receive only a portion of the face light and oriented at an angle to the face to reflect said portion away from the photodetector so that the photodetector receives primarily direct light from the face.

12. (Previously Presented) An optical network comprising a transmitter, an optical fiber optically coupled to the transmitter, and a receiver optically coupled to the fiber, the transmitter comprising an optical assembly comprising:

a substrate:

a light emitting device mounted over a major surface of the substrate and having a at least one channel formed in the substrate near the face of the light emitting device; and

at least one photodetector optically coupled to the light emitted from the face, the channel including at least one surface spaced from the face and positioned to receive only a portion of the face light and oriented at an angle to the face to reflect said portion away from the photodetector so that the photodetector receives primarily direct light from the back face.

13. (Previously Presented) A method of forming an optical assembly comprising the steps of:

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Examiner: D. Nguyen Art Unit: 2828 mounting a light emitting device having a face over a major surface of a substrate; mounting a photo detector so as to receive light emitted from the face; and

forming a channel in the substrate in close proximity to the face, the channel including at least one surface spaced from the face and positioned to receive only a portion of the light from the face and oriented at an angle to the face to reflect said portion away from the photodetector so that the photodetector receives primarily direct light from the face.

- 14. (Original) The method according to claim 13 wherein the channel is formed by etching the major surface of the substrate.
- 15. (Original) The method according to claim 14 where the etching forms at least one V-groove in the channel.
- 16. (Original) The method according to claim 15 wherein the substrate is silicon, and the V-groove has walls in the <111> crystallographic plane of the substrate.

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